

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-039770

(43)Date of publication of application : 06.02.2002

(51)Int.Cl.

G01C 21/00  
G06F 13/00  
G06F 17/30  
G10K 15/02  
H04N 7/173

(21)Application number : 2000-227791

(71)Applicant : OKI ELECTRIC IND CO LTD

(22)Date of filing : 27.07.2000

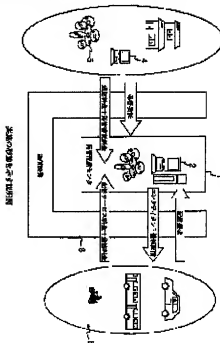
(72)Inventor : NAGATA SHIRO  
HIBINO RYUICHI

## (54) STORAGE AND DISTRIBUTING SYSTEM FOR ENTERTAINMENT INFORMATION

(57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a storage and distributing system in which entertainment information desired during a drive or during a travel is received by an information communication and reproducing device so as to be reproduced.

**SOLUTION:** The entertainment information whose storage is entrusted by a user to a control and distributing center 1 is stored in a controller 2. When the distributing of the entertainment information is requested from the controller 2 via a communication facility such as a beacon or the like by the information communication and reproducing device loaded on the vehicle of a user, the stored entertainment information is downloaded to the information communication and reproducing device from the controller 2 according to the request.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than  
the examiner's decision of rejection or  
application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's  
decision of rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]

**\* NOTICES \***

**JPO and INPIT are not responsible for any damages caused by the use of this translation.**

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**DETAILED DESCRIPTION**

---

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention keeps various kinds of entertainment information entrusted by the user, and relates to the system which distributes this entertainment information to the information communication link regenerative apparatus loaded into a user's car according to the demand of a user.

[0002]

[Description of the Prior Art] Various media, such as CD and MD which memorized entertainment information, such as music and an image, a record, a music cassette, a videocassette, and DVD, are owned by the individual. The medium which common cars, such as a private vehicle, were equipped with the regenerative apparatus which reproduces the entertainment information on media, such as CD and MD, on the other hand, can enjoy music etc. now easily also in transit, therefore memorized entertainment information on the occasion of a drive or a travel is brought, and what enjoys the entertainment information on a medium during transit is increasing.

[0003] Furthermore, the car carrying the equipment which delivers and receives various kinds of information between communication equipments, such as equipment equipped with the function which copies out images, such as car navigation, recently, a beacon (electric-wave lighthouse) installed along with the path on-the-street side and the path side during transit, or an electric-wave type marker, is also increasing. If it thinks from the function of these equipments, entertainment information, such as music and an image, is received from said communication link during transit, it can project on monitor displays, such as car navigation, or early utilization of the equipment which can output music from a loudspeaker can be expected.

[0004]

[Problem(s) to be Solved by the Invention] However, even if it wavers [ with which if the amount of possession of the medium which memorized entertainment information increases, it will go in the case of a drive or a travel, and ] in many cases and chooses in advance, after actually going out, another thing becomes wanting, the medium of the same contents at a house is purchased on the way, and there is a problem of increasing useless expenses.

[0005] This invention aims at offering the entertainment information storage distribution system which can solve such a problem.

[0006]

[Means for Solving the Problem] Therefore, the entertainment information storage distribution system of this invention The management equipment which puts in a database and keeps entertainment information, such as music and an image, is formed in a management distribution center. If distribution of said entertainment information is required with the information communication link regenerative apparatus which kept the entertainment information to which the user entrusted storage to this management distribution center with said management equipment, and was loaded into a user's car It is characterized by distributing the entertainment information currently kept according to the demand to an information communication link regenerative apparatus.

[0007]

[Embodiment of the Invention] With reference to a drawing, the gestalt of operation of the entertainment information storage distribution system by this invention is explained below. Drawing 1 is the explanatory view showing the gestalt of operation. In drawing, 1 is a storage distribution center, the entertainment information entrusted to this storage distribution center 1 by the user is kept in a database, and the management equipment (server) 2 which performs management for distributing that entertainment information currently kept according to a demand of a user is installed.

[0008] 3 is communication equipments, such as a public communication channel, and various networks for an information communication link, a beacon. Terminal units, such as a personal computer with which 4 was installed in a user's home etc., and 5 are the media which the user purchases or holds, and CD, MD, a record, a music cassette, a videocassette, DVD, etc. are mentioned as this medium 5.

[0009] 6 is cars, such as an automobile and a motorcycle, by accessing the management equipment 2 of the storage distribution center 1 by wireless through the communication equipments 4, such as a beacon, it is possible on this car 6 to receive distribution of entertainment information, such as music and an image, and it is equipped with the information communication link regenerative apparatus which has the regenerative function of the distributed entertainment information. Next, an operation of a configuration of having mentioned above is explained.

[0010] First, a user accesses the management equipment 2 of the storage distribution center 1 through the communication equipments 4, such as a network, with a home or a terminal unit 5, and entrusts storage of the medium 5 purchased or held by itself. In this case, a user transmits the entertainment information memorized by the medium 5 to management equipment 2 from a terminal unit 5, and receives identifiers, such as the serial number which discriminates that entertainment information from management equipment 2.

[0011] moreover, the operator of the storage distribution center 1 -- telephoning -- storage of a medium 5 -- communication -- a medium 5 -- there is also a method of sending the object to the storage distribution center 1 by mail etc. In this case, the operator of the storage distribution center 1 inputs the entertainment information on the mailed medium 5 into management equipment 2, and notifies a user of the identifier given by management equipment 2 in that case.

[0012] Management equipment 2 matches with an identifier the entertainment information inputted by the entertainment information or the operator seen off by the user, and carries out fixed period storage at a database. Then, when a user operates the information communication link regenerative apparatus currently loaded into the car 6 by a drive and the travel middle class, it accesses with the management equipment 2 of the storage distribution center 1 on radio through the communication equipments 4, such as a beacon. If the distribution of entertainment information which entrusted storage is required while inputting an identifier Out of the entertainment information currently kept, management equipment 2 searches the thing applicable to said identifier, and distributes the retrieved entertainment information to a user's information communication link regenerative apparatus through the communication equipments 4, such as a beacon.

[0013] Since the distributed entertainment information is reproduced as voice or an image based on the contents with an information communication link regenerative apparatus, a user and a fellow passenger can listen to the music using entertainment information in a car 6, or can see an image. Moreover, the terminal unit 7 installed in the home etc. can receive distribution of entertainment information.

[0014] In this case, a user accesses the management equipment 2 of the storage distribution center 1 through the communication equipments 4, such as a network, by operating a terminal unit 7, if distribution of the entertainment information currently kept by inputting an identifier is required, entertainment information will be retrieved like the above and the retrieved entertainment information will be distributed through the communication equipments 4, such as a network.

[0015] Storage of the entertainment information mentioned above and distribution are charges, therefore a user needs to sanction a use tariff. Although how to pay a communication link tariff and a storage tariff by electronic sanction at the time of storage commission, and to pay a communication link tariff and a distribution service charge as the approach of sanction at the time of distribution can be considered In

addition, I have the storage distribution center 1 carry out user registration to a user with comparatively high use frequency, the bill of a use tariff is published to every fixed period (for example, moon unit) to the user, and how to sanction by bank transfer etc. is also considered.

[0016]

[Effect of the Invention] As explained above, the entertainment information storage distribution system of this invention The management equipment which puts in a database and keeps entertainment information, such as music and an image, is formed in a management distribution center. If distribution of said entertainment information is required with the information communication link regenerative apparatus which kept the entertainment information to which the user entrusted storage to this management distribution center with said management equipment, and was loaded into a user's car The entertainment information currently kept according to the demand shall be distributed to the information communication link regenerative apparatus.

[0017] Therefore, according to this, a user can receive the entertainment information for which it wishes during a drive and a travel by entrusting much entertainment information which self holds with an information communication link regenerative apparatus, and can be reincarnated, and in case he goes out for the reason, with which entertainment information it going and the effectiveness that waver, or purchase a medium on the way and a thing, such as increasing useless expenses, is lost are acquired.

---

[Translation done.]

DESCRIPTION OF DRAWINGS

---

[Brief Description of the Drawings]

[Drawing 1] It is the explanatory view showing the gestalt of operation.

[Description of Notations]

1 Storage Distribution Center

2 Management Equipment

3 Communication Equipment

4 Terminal Unit

5 Medium

6 Car

---

CLAIMS

---

[Claim(s)]

[Claim 1] The entertainment information storage distribution system carry out distributing the entertainment information which forms the management equipment which puts in a database and keeps entertainment information, such as music and an image, in a management distribution center, keeps the entertainment information to which a user entrusted storage to this management distribution center with said management equipment, and has kept according to that demand if distribution of said entertainment information requires with the information communication link regenerative apparatus loaded into a user's car to an information communication link regenerative apparatus as the description.

[Claim 2] The information communication device loaded into a user's car in claim 1 is an entertainment information storage distribution system characterized by the entertainment information which reception of entertainment information was possible and was received from the management equipment of a management distribution center through the communication equipment which can transmit and receive informational by the electric wave being reproducible.

[Claim 3] It is the entertainment information storage distribution system which a user transmits entertainment information to the management equipment of a management distribution center with information terminals, such as a personal computer, in claim 1, and is characterized by management equipment keeping this entertainment information in a database.

[Claim 4] It is the entertainment information storage distribution system characterized by for a user inputting into a management distribution center the medium which memorized entertainment information in claim 1, inputting the entertainment information on a medium into management equipment in delivery and the management distribution center, and keeping it in a database.

---

[Translation done.]